SOLID STATE DEVICES, INC.

14830 Valley View Blvd * La Mirada, Ca 90638 Phone: (562) 404-7855 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

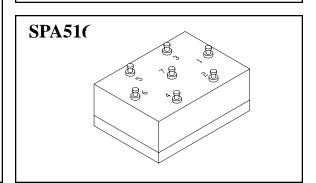
Designer's Data Sheet

FEATURES:

- Ultra Fast Recovery: 70 nsec Maximum
- 3000 V Blocking Voltage
- 6000 V Dielectric Voltage
- Average Output Current 3 Amps
- Low Reverse Leakage Current
- Glass Passivated Rectifiers
- Hermetically Sealed Discretes
- Aluminum Base for Maximum Thermal Conductivity
- TX and TXV Level Screening Available

SPA516L-3UF

3 AMPS 70 nsec ULTRA FAST RECOVERY DUAL SINGLE PHASE BRIDGE ASSEMBLY



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	3000	Volts
Average Rectified Forward Current			
(Resistive load, 60Hz, Sine Wave) $T_C = 25^{\circ}C$ $T_C = 100^{\circ}C$	Io	3 1.5	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T _A = 25°C, per leg)	$I_{ m FSM}$	75	Amps
Operating and Storage Temperature Junction Temperature	T _{OP} & Tstg T _J	-55 TO +150 -55 TO +175	oC.
Maximum Thermal Resistance			
Junction to Case (per Assebly) Junction to Case (per Leg)	$ heta_{ m JC}$	1.125 9.0	°C/W

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RA0020B

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Electrical Characteristics 1/ (per leg)		SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop (300 - 500µsec pulse)	$\begin{split} I_F &= 0.5A \\ I_F &= 1A \\ I_F &= 3A \end{split}$	$egin{array}{c} V_{F1} \ V_{F2} \ V_{F3} \end{array}$	3.75 4.35 5.70	Vdc
Reverse Leakage Current (Rated V _R , 300µs pulse minimum)	$T_A = 25$ °C $T_A = 100$ °C	I _{R1} I _{R2}	10 1.0	μA mA
Reverse Recovery Time $(I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A)$		$t_{ m RR}$	70	nsec
Isolation Resistance (All Terminals in Com (V = 6000V)	nmon to Case)	R _{ISO}	1.0	$\mathbf{G}\Omega$

 $\underline{1}/T_A = 25$ °C, Unless otherwise specified

